

**Michigan Department of Environmental Quality
Office of Drinking Water and Municipal Assistance
Counter Terrorism Technical Assistance and Training Grant
Water Sector Security Program Activity Report**

February 8, 2013

I. Summary

The following is the activity report of Michigan Department of Environmental Quality (MDEQ) Office of Drinking Water and Municipal Assistance (ODWMA) Water Security and Emergency Management Program. The program is supported by the U. S. Environmental Protection Agency (US EPA) Counter Terrorism Technical Assistance and Training Grant. This report is for the period from January 1, 2012 through December 31, 2012.

Due to substantial loss of personnel due to retirement and discontinued funding of the Counter Terrorism grant, the Water Security and Emergency Management Coordinator assumed the responsibilities as Chief of the Operator Training and Certification Unit on 1/1/11. Water Security and Emergency Management responsibilities for the Coordinator were reduced to approximately 25 % of the position. Additional Water Security and Emergency Management activities were performed by MDEQ staff on an individual basis.

Effective October 1, 2012, due to budgetary limitations and reorganization within the MDEQ, the Operator Training and Certification Unit was eliminated and the Unit Chief, i.e., Water Security Coordinator, was transferred to the Water Sector Security and Emergency Management Coordinator position.

II. Water Sector

The Water Sector is one of the 18 sectors described in the U. S. Department of Homeland Security (DHS) National Response Framework (NRF). The Coordinator participates in numerous Water Sector Security and Emergency Management activities. Those activities include:

- A. Chair the Water Sector on the Michigan State Police (MSP) Michigan Infrastructure Coordination Committee (MICC) which includes both public and private infrastructure representatives.
- B. Co-Chair of the American Water Works Association (AWWA) Michigan Section Water System Security and Emergency Management Committee (WSSEMC).
- C. Member of the MDEQ Emergency Management Support Team (EMST).
- D. Secretary of the Michigan WARN (Water and Wastewater Agency Response Network), an internet based 24/7 utilities helping utilities system.
- E. Maintained the Internet web page for Water and Wastewater Security.
- F. Requested US EPA extend the Counterterrorism grant period from 30 September 2012, by 15 months to 31 December 2013 in consideration of the work plan for the performance of tabletop exercises (TTXs) using a contractor.
- G. Developed a RFP (Request for Proposals) for the performance of TTXs at Water Sector facilities on a population priority basis.
- H. Established and chaired a Joint Evaluation Committee (JEC) consisting of 3 MDEQ personnel as well as a Department of Management and Budget (DTMB) buyer and selected TTX contractor.
- I. Support the improved use of technology, e.g., Internet web sites, digital media, and real-time water quality monitoring in natural waters as well as in public water system (PWS) distribution systems.

III. Michigan Water and Wastewater Agency Response Network (MI WARN)

The Coordinator acted as secretary of the MI WARN Steering Committee as it enhances its web site and provides more services to the utilities.

IV. Michigan Infrastructure Coordination Committee (MICC)

The Coordinator is a member of the Michigan Infrastructure Coordination Committee (MICC) which is coordinated by the Emergency Management and Homeland Security Division (EMHSD) of the Michigan State Police (MSP). Inasmuch as 85 % of critical infrastructure is owned by the private sector, the MICC is comprised of representatives from the private as well as the public sectors. Protective Security Advisors (PSA's) from the US Department of Homeland Security (DHS) also participate in the MICC.

V. MDEQ Emergency Management Support Team

1. The Coordinator is a member of the MDEQ Emergency Management Support Team (EMST) and participates in routine EMST meetings. The EMST coordinates the MDEQ emergency management responsibilities. The EMST coordinates priorities and activities with the MSP and its Emergency Management and Homeland Security Division (EMHSD), and Michigan Department of Technology and Management and Budget. The ODWMA routinely updates its Emergency Management Plan and works with the EMST in the preparation of the DEQ Continuity of Operations Plan (COOP) and Continuity of Government (COG) plan.

2. The Coordinator advises all public water and wastewater systems have the Michigan Army National Guard (MANG) at Ft. Custer 51st Civil Support Team (CST), with their mobile laboratory and communications vehicles, listed in their Emergency Response Plans (ERP's) and Contingency Plans (CP's).

VI. Threat Advisory Notification System (TANS)

1. A Threat Advisory Notification System (TANS) has been developed using the email addresses. Articles in the American Water Works Association Michigan Section Water Works News have solicited Internet based email addresses from PWS. Internet email addresses have also been solicited from wastewater systems in the Michigan Water Environment Association (MWEA) Water Matters publication. The TANS list includes 537 email addresses of PWS and wastewater systems and local county health department officials.
2. The following TANS notice were sent in 2012:
 - a. [TANS #61 To Forward Michigan Intelligence Operations Center Situational Awareness Bulletin \(MIOC MI SAB-11-2012\) : Theft of copper from Energy Sector substations, March 27, 2012](#)
 - b. [TANS #62 To Forward JSAR-12-151-01A \(UPDATE\) - sKyWlper/Flame Malware, June 7, 2012](#)
 - c. [TANS #63 To Announce Michigan Multi-Sector Infrastructure Protection and Threat Workshop: 8/1-2/12 at Michigan State University, July 9, 2012](#)
 - d. [TANS #64 To Announce Water Sector ICS/NRF Training Workshop at MDEQ on September 18, 2012, July 19, 2012](#)
 - e. [TANS #65 To Forward US EPA training and exercise plan webinar announcement, August 17, 2012](#)
 - f. [TANS #66 To Forward George Mason University School of Law CIP Report: September 2012, Water Sector, October 5, 2012](#)
 - g. [TANS #67 To Forward draft discussion paper and draft Executive Order on Improving Critical Infrastructure Cybersecurity Practices \(9/28/12\), November 8, 2012](#)

VII. MI Section: American Water Works Association: Water System Security and Emergency Management Committee (WSSEMC)

A. The Coordinator is co-chair of the Michigan Section of the American Water Works Association Water System Security and Emergency Management Committee (WSSEMC). The Coordinator, as co-chair of the committee, has shifted the water security program to include emergency management as part of all hazards systems management. The Coordinator chaired the ad hoc annual Water Security Summit conference committee which included a speaker from the City of Joplin, MO and the City of Nashville which described an EF 5 tornado and a once in 500 year flood which were well received. The WSSEMC held the eighth annual Water Security Summit (WSS) on 6/6/12 and had local and national speakers and was generally evaluated as a successful conference. All presentations were subsequently placed on the ODRMA Water Security web page.

B. The WSSEMC has 5 goals:

1. Emphasize Contamination Warning Systems
2. Emphasize Table Top Exercises
3. Attend AWWA national Water Security Congress: water utility and Coordinator
4. Hold annual MI Section Water Security Summit conference
5. Develop Security Program Measurables

C. The following are synopses of ODWMA articles prepared by the Coordinator that appeared in the American Water Works Association (AWWA) MI Section Water Works News (WWN) quarterly publication:

1. February 2012 WWN: September 2011 Water Security Congress attendance reported, Water Security Summit '12 recommendation, all hazards incident – wastewater treatment plant toxicity.
2. May 2012 WWN: energy planning via the Michigan Public Service Commission (MPSC) local energy assurance plan (LEAP), risk management via US Department of Homeland Security integrated risk management system, and an all hazards incident - flood.
3. August 2012 WWN: US EPA's counterterrorism grant to the MDEQ has been approved for an extension for the grant period from 30 September 2012 to 31 December 2013 in accordance with a work plan which outlines conducting tabletop exercises (TTXs), Water Security Summit '12 presentations are on the MDEQ Water Security web site under Information - Water Security Summit presentations index, all hazards incident - drought.
4. November 2012 WWN: emergency water source at hospitals, MI WARN – having a mutual aid agreement prior to the incident assists in reimbursement, all hazards incident - cyber terrorism.

VIII. Technology/Internet

The following is the universal resource locator (URL) http://www.michigan.gov/deq/0,1607,7-135-3313_23413--,00.html for the ODWMA Water Security webpage. The Coordinator continually improves the web page to provide contemporary information and assistance to the regulated interests and partners.

The Coordinator, as a part of the partnership engagement process, recommends real-time monitoring of water sources, ambient waters, as well as distributed drinking water inasmuch as technology continues to improve access to parameters that offer continuous monitoring with the appropriate response protocols.

IX. Future contract efforts

Contract efforts have been a part of the Michigan water security and emergency management program in the past and a current contract is in effect for the performance of TTXs. However, due to both national funding elimination and State budget concerns, additional contract efforts are limited.

X. Public Outreach

The WB coordinator has participated in numerous public outreach opportunities as indicated in the following:

- A. 1/26/12: Meeting of MDEQ subject matter experts on the preparation of the drinking water and wastewater vulnerability operator training class.
- B. 2/8/12: Co-chaired the Michigan Section AWWA Water System Security and Emergency Management Committee. The Coordinator is the secretary for the Cte.
- C. 3/8/12: Meeting of MDEQ subject matter experts on the preparation of the drinking water and wastewater vulnerability operator training class.
- D. 3/29/12: Participated in US EPA Region 5 Water Security Coordinators conference call.
- E. 4/24/12: Meeting of MDEQ subject matter experts on the preparation of the drinking water and wastewater vulnerability operator training class.
- F. 5/1/12: Conducted MDEQ drinking water and wastewater vulnerability operator training class for 31 operators.
- G. 5/4/12: Participated in US EPA contractor Horsley Witten ICS 200 and National Response Framework class.
- H. 5/8/12: WSSEM Committee held at Detroit Water and Sewerage Department (DWSD) Water Board Building.
- I. 5/9+15+23/12: Participated in National Level Exercise (NLE) planning meetings for a cyber incident at DWSD.
- J. 5/30/12: Participated in a Community Water Emergency Roundtable at Marysville with US EPA.
- K. 6/6/12: Participated in NLE involving DWSD and a cyber incident.
- L. 6/6/12: Spoke at the WSS 12 conference about the Freedom of Information Act exemption of public works information. Attendance was approximately 60.
- M. 6/21/12: Participated in US EPA Region 5 states water security coordinators conference call.
- N. 6/25-27/12: Attended US EPA Operator Certification and Training Eastern Regional conference in Chicago, IL.
- O. 6/28/12: Participated in meeting with AWWA MI Section Board meeting with MDEQ management.
- P. 7/11 & 13 & 18 & 25/12: Participated in planning conference calls with the FBI and US EPA Water Security Division staff regarding the upcoming Food and Water Sectors conference.
- Q. 8/1&2/12: FBI/EPA Food and Water Sectors Weapons of Mass Destruction (WMD) conference at MSU.
- R. 9/13/12: MDEQ Water Security web page clean up meeting.
- S. 9/18/12: Participated in US EPA Horsley Witten NRF training.
- T. 9/20/12: Participated in US EPA Region 5 states security coordinators conference call.
- U. 10/15/12: Participated in MI WARN Steering Committee meeting at Lexington Hotel.
- V. 10/19/12: Participated in Michigan State Police Michigan Infrastructure Coordinating Committee conference call.
- W. 11/21&28/12: Chaired the Joint Evaluation Committee (JEC) of the Michigan Department of Technology and Budget (MDTMB) on the TTX contract.
- X. 12/12/12: Attended the West Michigan Water Consortium Water and Energy Sectors meeting in Grand Rapids.

- Y. 12/13/12: Participated in US EPA Region 5 Water Security coordinators conference call.
- Z. 12/14/12: Attended MI WARN Steering Committee at Lexington Hotel and acted as secretary.
- AA. 12/21/12: Attended MDEQ Emergency Management Support Team (EMST) as Water Sector representative.

XI. Future

The Water Sector Security and Emergency Management Program is a function of funding. Existing security grant fund balances are being reviewed in order to determine the Water Sector Security and Emergency Management program and work plan. For example, it is expected that federal legislation will place new requirements on the use of gas chlorine at drinking water and wastewater facilities under the Chemical Facility Anti-Terrorism Standards (CFATS) legislation and possible climate change legislation which may provide for Water Sector security and emergency management program funding.